# **SAFETY DATA SHEET**



### The information in this Safety Data Sheet is required pursuant to Hazardous Product Regulations 2015.

Date of issue/Date of revision 13 August 2024 Version 9.03

- · · · · · · · · · · · · · · · · · · ·		
Section 1. Identification		
Product name	: SIGMATHERM 540 BLACK	
Product code	: 00318312	
Other means of identification	: Not available.	
Product type	: Liquid.	
Relevant identified uses o	f the substance or mixture and uses advised against	
Product use	: Professional applications, Used by spraying.	
Use of the substance/ mixture	: Coating.	
Uses advised against	: Not applicable.	
Supplier	<ul> <li>PPG Architectural Coatings Canada, Inc. 1550, rue Ampère, bureau 500 Boucherville (Québec) J4B 7L4 Canada +1 450-655-3121</li> </ul>	
	PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
<b>Technical Phone Number</b>	: 888-977-4762	

# Section 2. Hazard identification

Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2
	SERIOUS EYE DAMAGE - Category 1
	CARCINOGENICITY - Category 1
	TOXIC TO REPRODUCTION - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract
	irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	Health Hazards Not Otherwise Classified - Category 1

**GHS label elements** 

Canada Page: 1/19

Product name SIGMATHERM 540 BLACK

### Section 2. Hazard identification

Hazard pictograms		
Signal word	Danger	
Hazard statements	Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (hearing organs) Prolonged or repeated contact may dry skin and cause irritation.	
Precautionary statements		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product Wash thoroughly after handling.	t t
Response	IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rins cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.	R or se
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed.	
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Supplemental label elements	Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or a from spray applications. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Repeated exposure to high vapor concentrations may cause irritation the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure lin causes headaches, drowsiness and nausea and may lead to unconsciousness o death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emitoxic fumes when heated.	of nits vr

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture : SIGMATHERM 540 BLACK
Product name Other means of	Not available.
identification	

### **CAS number/other identifiers**

Product code 00318312

Ingredient name	Synonyms	% (w/w)	CAS number
Mica-group minerals	Mica group minerals; Dimonite; mica; Micatex; Minerals, mica group; Silicate, mica; Silicates (less than 1 % crystalline silica) Mica; Silicates, Mica; Zimmwaldite; Roscoelite; Phlogopite	10 - 30*	12001-26-2
xylene	Benzene, dimethyl-; Xylol; Benzene, dimethyl-, mixed isomers; xylene, mixed isomers, pure; xylene, crude; Benzene, dimethyl-,; Xylene (mixed); xylene (total); Xylenes; Dimethylbenzene; XYLENES (Isomer Mixture)	10 - 30*	1330-20-7
manganese ferrite black spinel	C.I. Pigment Black 26; Manganese ferrite, black, spinel; C.I. pigment black 026; Manganese Ferrite	5 - 10*	68186-94-7
1-methoxy-2-propanol	monopropylene glycol methyl ether; 1-methoxypropan-2-ol; 2-Propanol, 1-methoxy-; Propylene glycol monomethyl ether; Dowtherm 209; Propylene glycol methyl ether; 1-Methoxy- 2-hydroxypropane; 2-Methoxy- 1-methylethanol; PGME; mixture containing by weight: — 69 % or more but not more than 71 % of 1-methoxypropan- 2-ol (CAS RN 107-98-2), — 29 % or more but not more than 31 % of 2-methoxy- 1-methylethyl acetate (CAS RN 108-65-6); methoxyisopropanol	5 - 10*	107-98-2
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Oxirane, 2-[[3-(trimethoxysilyl)propoxy] methyl]-; Silane, trimethoxy[3- (oxiranylmethoxy)propyl]-; 3- (2,3-Epoxypropoxy)propyl) trimethoxysilane; mixture consisting of: — 64 % or more, but not more than 74 % by weight of amorphous silica (CAS RN 7631-86-9) — 25 % or more, but not more than 35 % by weight of butanone (CAS RN 78-93-3) and — not more than 1 % by weight of 3-(2,3-epoxypropoxy) propyltrimethoxysilane (CAS RN 2530-83-8); Silane, 3-(2,3-epoxypropoxy) propyltrimethoxy-; 2,3-Epoxy propoxy propyltrimethoxy-; 2,3-Epoxy propoxy propyltrimethoxy-; 2-[3-	3 - 7*	2530-83-8
		Ca	nada Page: 3/1

Product name SIGMATHERM 540 BLACK

### Section 3. Composition/information on ingredients

•			
	(Trimethoxysilyl)propoxy]methyl}oxirane; (Glycidyloxyalkyl) trialkoxysilane [alkyl (C1-3),alkoxy (C1-2)]		
Wollastonite	Calcium silicate; calcium silicate, naturally occurring as wollastonite; Wollastonite (Ca (SiO3)); Fibres-Natural Mineral Fibres, Wollastonite; Aedelforsite; CALCIUM METASILICATES; wollastonite dust; wollastonie; calcium,dioxido(oxo)silane	1 - 5*	13983-17-0
ethylbenzene	Benzene, ethyl-; Phenylethane; Ethylbenzol; photosensitive emulsion consisting of cyclized polyisoprene containing: — 55 % or more but not more than 75 % by weight of xylene (CAS RN 1330-20-7) and — 12 % or more but not more than 18 % by weight of ethylbenzene (CAS RN 100-41-4); EB; Mono-(or di-) methyl (ethyl,bromoallyl, bromopropyloxycarbonyl orchloropropyloxycarbonyl) benzene	1 - 5*	100-41-4
crystalline silica, respirable powder (<10 microns)	alpha-quartz; Silica, crystalline (quartz); Silica, Crystalline Quartz; SILICA, CRYSTALLINE, QUARTZ; Silica- Crystalline, Quartz; Silica - Crystalline Quartz; Silica-Crystalline : Quartz; Silica, crystalline - quartz	1 - 5*	14808-60-7
1-Butanol, titanium(4+) salt (4:1), homopolymer	1-Butanol, titanium(4+) salt, homopolymer; Poly(di-n-butoxy titanoxane); Titanium tetrabutylate, polymer; poly(n-butyl titanate); titanium(4+) tetrabutan-1-olate, homopolymer; poly(titanium butoxide); 1-butanol, titanium(4+) salt (4:1), homopolymer; titanium tetrabutoxide, homopolymer; butyl titanate, homopolymer; butyl titanate, polymerized; Titanium tetrabutylate polymer; Polymer of titanium tetrabutoxide; n-Butoxy titanate polymer; Dibutoxy titanium polymer; 1-Butanol titanium(4+) salt, homopolymer	1 - 5*	9022-96-2
toluene	Benzene, methyl-; Methylbenzene; Toluol; Phenyl methane; Methyl benzol; toluene, pure; toluene, crude; antisal 1A; benzene, methyl-; CP-25; methane, phenyl-; methylbenzene; methylbenzol; NCI- CO7272; phenyl methane; RCRA waste number U220; toluol; tolu-sol; methacide; 1-methylbenzene; methacide; Cuminyl alcohol; Cuminol	0.1 - 1*	108-88-3

\*Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

### Product name SIGMATHERM 540 BLACK

### Section 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### **Description of necessary first aid measures**

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	<ul> <li>Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/effects, acute and delayed				
Potential acute health effects				
Causes serious eye damage.				
May cause respiratory irritation.				
Causes skin irritation. Defatting to the skin.				
No known significant effects or critical hazards.				
<u>ns</u>				
Adverse symptoms may include the following: pain watering redness				
Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations				
Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations				

Product name SIGMATHERM 540 BLACK

### Section 4. First-aid measures

Ingestion	stom redu incre	erse symptoms may include the following: nach pains ced fetal weight ease in fetal deaths etal malformations
Indication of immediate med	cal atte	ntion and special treatment needed, if necessary
Notes to physician		t symptomatically. Contact poison treatment specialist immediately if large ntities have been ingested or inhaled.
Specific treatments	i No s	specific treatment.
Protection of first-aiders	is su mas prov	action shall be taken involving any personal risk or without suitable training. If it ispected that fumes are still present, the rescuer should wear an appropriate k or self-contained breathing apparatus. It may be dangerous to the person iding aid to give mouth-to-mouth resuscitation. Wash contaminated clothing bughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures		
For non-emergency personnel	:	No action shall be taken involving any personal risk or with Evacuate surrounding areas. Keep unnecessary and unpre- entering. Do not touch or walk through spilled material. S No flares, smoking or flames in hazard area. Do not breat adequate ventilation. Wear appropriate respirator when ver- Put on appropriate personal protective equipment.	rotected perso hut off all igni he vapor or n	onnel from tion sources. nist. Provide
For emergency responders	:	If specialized clothing is required to deal with the spillage, information in Section 8 on suitable and unsuitable materia information in "For non-emergency personnel".		
			Canada	Page: 6/19

Product name SIGMATHERM 540 BLACK

### Section 6. Accidental release measures

Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
Advice on general occupational hygiene	Wash hands thoroughly after handling.
	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
	on an induction.

# Section 8. Exposure controls/personal protection

### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
Mica-group minerals	CA Alberta Provincial (Canada, 3/2023). OEL: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable CA British Columbia Provincial (Canada, 8/2023). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable CA Quebec Provincial (Canada, 7/2023). TWAEV: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable dust. CA Ontario Provincial (Canada, 6/2019). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate matter. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 6 mg/m <sup>3</sup> 15 minutes. Form: respirable fraction TWA: 3 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
xylene	CA Alberta Provincial (Canada, 3/2023). [Dimethylbenzene] OEL: 651 mg/m³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m³ 8 hours. OEL: 100 ppm 8 hours. CA British Columbia Provincial (Canada, 8/2023). [Xylene (o, m & p isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Quebec Provincial (Canada, 7/2023). [Xylene] STEV: 651 mg/m³ 15 minutes. STEV: 150 ppm 15 minutes. TWAEV: 434 mg/m³ 8 hours. TWAEV: 434 mg/m³ 8 hours. TWAEV: 100 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.
	7/2013). [Xylene] STEL: 150 ppm 15 minutes.

# Section 8. Exposure controls/personal protection

Alberta Provincial (Canada, 3/2023). anganese, elemental & inorganic mpounds]
EL: 0.2 mg/m <sup>3</sup> , (as Mn) 8 hours. <b>British Columbia Provincial (Canada,</b> <b>023). [manganese - Elemental &amp;</b> <b>organic compounds]</b> WA: 0.02 mg/m <sup>3</sup> , (as Mn) 8 hours. Form: spirable WA: 0.2 mg/m <sup>3</sup> , (as Mn) 8 hours. Form: tal <b>Quebec Provincial (Canada, 7/2023).</b> <b>anganese- fumes, dusts and</b> <b>mpounds]</b> WAEV: 0.2 mg/m <sup>3</sup> , (as Mn) 8 hours. Form: tal dust. <b>Ontario Provincial (Canada, 6/2019).</b> <b>anganese elemental and inorganic</b> <b>mpounds]</b> WA: 0.2 mg/m <sup>3</sup> , (as Mn) 8 hours. <b>Saskatchewan Provincial (Canada,</b> <b>013). [Manganese and inorganic</b> <b>mpounds]</b> TEL: 0.6 mg/m <sup>3</sup> , (measured as Mn) 15 hutes. WA: 0.2 mg/m <sup>3</sup> , (measured as Mn) 8 Jars.
Alberta Provincial (Canada, 3/2023). EL: 553 mg/m <sup>3</sup> 15 minutes. EL: 150 ppm 15 minutes. EL: 369 mg/m <sup>3</sup> 8 hours. EL: 100 ppm 8 hours. British Columbia Provincial (Canada, 023). TEL: 100 ppm 15 minutes. WA: 50 ppm 8 hours. Ontario Provincial (Canada, 6/2019). TEL: 100 ppm 15 minutes. WA: 50 ppm 8 hours. Quebec Provincial (Canada, 7/2023). TEV: 553 mg/m <sup>3</sup> 15 minutes. TEV: 150 ppm 15 minutes. WAEV: 369 mg/m <sup>3</sup> 8 hours. WAEV: 369 mg/m <sup>3</sup> 8 hours. WAEV: 100 ppm 8 hours. Saskatchewan Provincial (Canada, 013). TEL: 150 ppm 15 minutes. WA: 100 ppm 8 hours.
ne. • <b>British Columbia Provincial (Canada,</b> <b>023).</b> WA: 1 mg/m³ 8 hours. Form: Inhalable
I CONVEVENTENDAL CONTINUES CONVENTENDAL CONVENTENCE CONVENTENCE CONVENTENCE

Product name SIGMATHERM 540 BLACK

# Section 8. Exposure controls/personal protection

CA Quebec Provincial (Canada, 7/2023). [Silica Crystalline -Quartz] TWAEV: 0.1 mg/m <sup>3</sup> 8 hours. Form: Respirable dust. CA Alberta Provincial (Canada, 3/2023). OEL: 0.025 mg/m <sup>3</sup> 8 hours. Form: Respirable particulate CA Saskatchewan Provincial (Canada, 7/2013). TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form: respirable fraction		· · · · · · · · · · · · · · · · · · ·
TWA: 20 ppm 8 hours.CA Quebec Provincial (Canada, 7/2023). TWAEV: 20 ppm 8 hours.CA Saskatchewan Provincial (Canada, 7/2013). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.crystalline silica, respirable powder (<10 microns)	ethylbenzene	<ul> <li>TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Inhalable particulate matter.</li> <li>CA Quebec Provincial (Canada, 7/2023).</li> <li>[Wollastonite]</li> <li>TWAEV: 5 mg/m<sup>3</sup> 8 hours. Form:</li> <li>Respirable dust.</li> <li>TWAEV: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust.</li> <li>CA Alberta Provincial (Canada, 3/2023).</li> <li>OEL: 543 mg/m<sup>3</sup> 15 minutes.</li> <li>OEL: 125 ppm 15 minutes.</li> <li>OEL: 434 mg/m<sup>3</sup> 8 hours.</li> <li>OEL: 434 mg/m<sup>3</sup> 8 hours.</li> <li>OEL: 100 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 8/2023).</li> <li>TWA: 20 ppm 8 hours.</li> </ul>
<ul> <li>8/2023). [Silica, Crystalline - alpha quartz and Cristobalite] TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Quebec Provincial (Canada, 7/2023).</li> <li>[Silica Crystalline -Quartz] TWAEV: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust.</li> <li>CA Alberta Provincial (Canada, 3/2023).</li> <li>OEL: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>TWA: 0.05 mg/m<sup>3</sup> 8 hours. Form: respirable fraction</li> </ul>		TWA: 20 ppm 8 hours. <b>CA Quebec Provincial (Canada, 7/2023).</b> TWAEV: 20 ppm 8 hours. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013).</b> STEL: 125 ppm 15 minutes.
respirable fraction	crystalline silica, respirable powder (<10 microns)	<ul> <li>8/2023). [Silica, Crystalline - alpha quartz and Cristobalite] TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>[Silica, Crystalline (Quartz/Tripoli)] TWA: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable</li> <li>CA Quebec Provincial (Canada, 7/2023).</li> <li>[Silica Crystalline -Quartz] TWAEV: 0.1 mg/m<sup>3</sup> 8 hours. Form: Respirable dust.</li> <li>CA Alberta Provincial (Canada, 3/2023).</li> <li>OEL: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable particulate</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> </ul>
<ul> <li>In-Butanon, intanium(4+) sait (4.1), homopolymer</li> <li>Itoluene</li> <li>Itoluene</li> <li>CA Alberta Provincial (Canada, 3/2023).</li> <li>Absorbed through skin.</li> <li>OEL: 188 mg/m<sup>3</sup> 8 hours.</li> <li>OEL: 50 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 8/2023).</li> <li>TWA: 20 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 6/2019).</li> <li>TWA: 20 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 7/2023).</li> </ul>	1-Butanol, titanium(4+) salt (4:1), homopolymer toluene	respirable fraction None. <b>CA Alberta Provincial (Canada, 3/2023).</b> <b>Absorbed through skin.</b> OEL: 188 mg/m <sup>3</sup> 8 hours. OEL: 50 ppm 8 hours. <b>CA British Columbia Provincial (Canada, 8/2023).</b> TWA: 20 ppm 8 hours. <b>CA Ontario Provincial (Canada, 6/2019).</b> TWA: 20 ppm 8 hours.

Page: 10/19 Canada

# Section 8. Exposure controls/personal protection

TWAEV: 20 ppm 8 hours.
CA Saskatchewan Provincial (Canada,
7/2013). Absorbed through skin.
STEL: 60 ppm 15 minutes.
TWA: 50 ppm 8 hours.

#### Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	: Chemical splash goggles and face shield.	
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.	
Gloves	: For prolonged or repeated handling, use the following type of gloves: Not recommended: nitrile rubber	
	Recommended: polyvinyl alcohol (PVA), butyl rubber, Viton®	
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.	
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	

Product name SIGMATHERM 540 BLACK

# Section 8. Exposure controls/personal protection

Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
------------------------	--

# Section 9. Physical and chemical properties

Appearance				
Physical state	: Liquid.			
Color	: Black.			
Odor	: Aromatic.			
Odor threshold	: Not availab			
рН	: Not applica			
Melting point	: Not availab			
Boiling point	: >37.78°C (	-		
Flash point	: Closed cup	: 27°C (80.6°F)		
Auto-ignition temperature	: Not availab	le.		
Decomposition temperature	: Not availab	le.		
Flammability	: Not availab	le.		
Lower and upper explosive (flammable) limits	: Not availab	le.		
Evaporation rate	: Not availab	le.		
Vapor pressure	: Not availab	le.		
Vapor density	: Not availab	le.		
Relative density	: 1.34			
Density(lbs / gal)	: 11.18			
Solubility(ies)	Media	F	Result	
oordonity(ies)	cold water	٢	lot soluble	
Partition coefficient: n- octanol/water	: Not applica	ble.		
Viscosity	: Kinematic (	40°C (104°F)): >2	1 mm²/s (>21 cSt)	
Volatility	: 49% (v/v), 3	R1 736% (w/w)		
	( <i>//</i>	J1.7 50 /0 (W/W)		

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
	Canada Page: 12/19

Product name SIGMATHERM 540 BLACK

### Section 10. Stability and reactivity

Refer to protective measures listed in sections 7 and 8.

Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

# Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>x</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapor	Rat	>7000 ppm	6 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Rat	5.2 g/kg	-
[3-(2,3-epoxypropoxy)propyl]	LC50 Inhalation Dusts and mists	Rat	>5.3 mg/l	4 hours
trimethoxysilane			-	
	LD50 Oral	Rat	7.01 g/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>x</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

### Conclusion/Summary

Skin Eyes Respiratory	<ul> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> <li>There are no data available on the mixture itself.</li> </ul>
Sensitization	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Carcinogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Classification</b>	

### Section 11. Toxicological information

Product/ingredient name	OSHA	IARC	NTP
Vene Wollastonite ethylbenzene crystalline silica, respirable powder (<10 microns) toluene	- - - +	3 3 2B 1 3	- - - Known to be a human carcinogen. -

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -

#### Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

### **Teratogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3	-	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	-	Narcotic effects
1-Butanol, titanium(4+) salt (4:1), homopolymer	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
toluene	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs
crystalline silica, respirable powder (<10 microns)	Category 1	inhalation	-
toluene	Category 2	-	-

**Target organs** 

: Contains material which causes damage to the following organs: liver, spleen, brain, bone marrow.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, heart, upper respiratory tract, immune system, skin, central nervous system (CNS), ears, eye, lens or cornea.

#### **Aspiration hazard**

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1
toluene	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

### Potential acute health effects

Eye contact

: Causes serious eye damage.

# Section 11. Toxicological information

hade a la Classe	<b>NA</b>
Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. Defatting to the skin.
Ingestion	: No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths

### Delayed and immediate effects and also chronic effects from short and long term exposure

skeletal malformations

Conclusion/Summary	: There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>	

Potential immediate effects

: There are no data available on the mixture itself.

### Section 11. Toxicological information

Potential delayed effects	1	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	-	There are no data available on the mixture itself.
Potential delayed effects	1	There are no data available on the mixture itself.
Potential chronic health eff	ect	2
General	:	Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	:	Suspected of damaging fertility or the unborn child.

#### **Numerical measures of toxicity**

### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMATHERM 540 BLACK	6862.1	4632.5	N/A	42.9	5.5
xylene	4300	1700	N/A	11	1.5
1-methoxy-2-propanol	5200	13000	N/A	N/A	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
1-Butanol, titanium(4+) salt (4:1), homopolymer	500	N/A	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Image: Arrow of the second	Acute LC50 23300 mg/l	Daphnia	48 hours
	Acute LC50 >4500 mg/l Fresh water	Fish	96 hours
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute EC50 255 mg/l Fresh water	Algae	72 hours
5	Acute EC50 473 mg/l	Daphnia	48 hours
	Acute LC50 55 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	48 hours -

### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-	37 % - Not readily - 28 days	-	-
ethylbenzene	-	79 % - Readily - 10 days	-	-

### Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ylene [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	-		Readily Not readily
ethylbenzene toluene			Readily Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>x</b> ylene	3.12	7.4 to 18.5	Low
1-methoxy-2-propanol	<1	-	Low
ethylbenzene	3.6	79.43	Low
toluene	2.73	8.32	Low

### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### Section 14. Transport information

	TDG	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group			

Canada Page: 17/19

Product name SIGMATHERM 540 BLACK

### Section 14. Transport information

Environmental hazards Marine pollutant substances		No.	No.	No.
		Not applicable.	Not applicable.	Not applicable.
Additional inf	formation			
TDG : None identified.				
IMDG	IDG : None identified.			
ΙΑΤΑ	: None	: None identified.		
Special preca	utions for ι		user's premises: always transport in e. Ensure that persons transporting the	
		upright and secure the event of an acc	e. Ensure that persons transporting the	
Transport in to IMO instrui	bulk accord	upright and secure the event of an acc	e. Ensure that persons transporting the	
Transport in t	bulk accord ments	upright and secure the event of an acc ling : Not applicable. : Product classified	e. Ensure that persons transporting the	e product know what to do ir

#### National Inventory List

Canada inventory (DSL)

: At least one component is not listed in DSL but all such components are listed in NDSL.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 \* Flammability : 3 Physical hazards : 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health : 3 Flammab	bility : 3 Instability : 1
Date of issue/Date of revision	13 August 2024
Organization that prepared the SDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

Canada Page: 18/19

### Section 16. Other information

N/A = Not available SGG = Segregation Group UN = United Nations

### ✓ Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.